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IS 3941 (1966): Cabin Ventilators [TED 17: Shipbuilding]



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Bhartrhari—Nitiśatakam

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Indian Standard
SPECIFICATION FOR
CABIN VENTILATORS

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INDIAN STANDARDS INSTITUTION
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Indian Standard

SPECIFICATION FOR CABIN VENTILATORS

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Indian Standard

SPECIFICATION FOR CABIN VENTILATORS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 17 December 1966, after the draft finalized by the Marine Engineering and Shipbuilding Sectional Committee had been approved by the Mechanical Engineering Division Council.

0.2 Cabin ventilators are used on board ships for natural ventilation to cabins, toilets, etc. They are directly fitted on to the bulkheads. A rainguard is fitted to the cabin ventilators when fitted to the bulkheads having no overhang of the decks.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the requirements of cabin ventilators.

2. MATERIAL

2.1 The material of the main body of the cabin ventilator and steel flange shall conform to IS : 2062-1962† and shall be galvanized.

2.2 The rainguard shall be made out of steel plates of thickness 1.6 mm, conforming to IS : 2062-1962†.

3. WELDING

3.1 The welding practice shall be in accordance with IS : 1323-1959‡.

4. GALVANIZING

4.1 All parts shall be galvanized in accordance with IS : 2629-1966§.

*Rules for rounding off numerical values (revised).

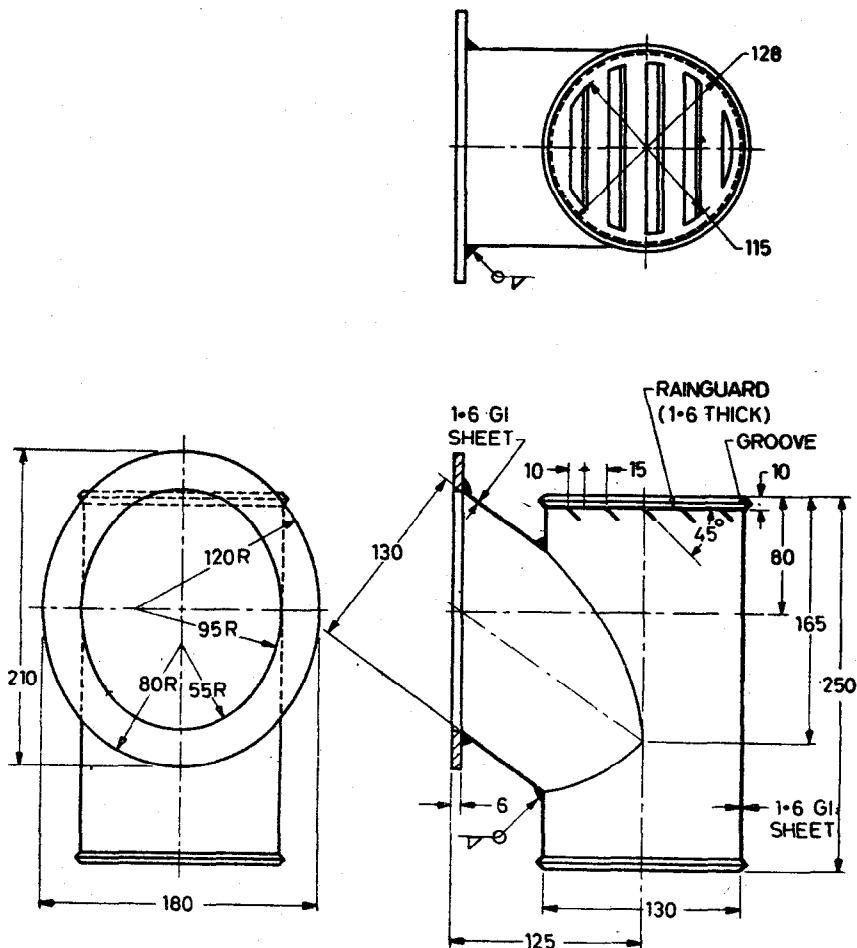
†Specification for structural steel (fusion welding quality).

‡Code of practice for oxy-acetylene welding for structural work in mild steel.

§Recommended practice for hot-dip galvanizing of iron and steel.

5. DIMENSIONS

5.1 The shape and dimensions of the cabin ventilator shall be as shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 DIMENSIONS FOR CABIN VENTILATORS

6. TOLERANCES

6.1 The tolerances on all dimensions shall be according to the coarse series of IS : 2102-1962*.

6.2 The tolerances on plates shall conform to those given in IS : 1730-1961†.

7. MARKING

7.1 The cabin ventilators may be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

*Recommendations for machining deviations for dimensions without specified tolerances.

†Dimensions for steel plate, sheet and strip for structural and general engineering purposes.

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

QUANTITY	UNIT	SYMBOL	DEFINITION
Force	newton	N	1 N = 1 kg.m/s ²
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m ²
Frequency	hertz	Hz	1 Hz = 1 c/s (s ⁻¹)
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m ²

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